						•	Pa
1449	U.S. Department			Atty. I SUN-F	Pocket No. P6990	Serial No 10/040,27	
	Tutent and Traden	MIK OTTICO		Applic	ant:		
Infor	mation Disclosure	Statement by	Applicant		K. de Jong		
	(Use several she	ets if necessar	y)		er 29, 2001	2138	213
			U.S. Patent Docum	nents			
	Document No.	Date	Name		Class	Subclass	Filir
Α	6,286,104	9/4/01	Buhle et al.		-		
						RECE	
				· ·		11	13.3
					<del> </del>	APR 2	2 20
	·		<del></del> -			<del></del>	<del>                                     </del>
						<del>-Technology</del>	<del>  ente</del>
					<del>                                     </del>		+
							-
							-
							<u> </u>
							<u> </u>
	-			4-			
			Foreign Docume	nts	<del> </del>	<u> </u>	Tra
	Document No.	Date	Country		Class	Subclass	Yes
В	GB 2 352 850	2/7/01	GB		T -		
	L.,		<u> </u>		<u> </u>		
С						FC) 1320, MIT 1	Laborat
D	D Divest "The M	D5 Message-I	a Security, Inc., Apr	equest for (	Comments (R	FC) 1321 MIT	Lahora
ם	Computer Science	and RSA Data	a Security, Inc., April	1 1992	comments (10	10, 1521 1411	Dubbia
E					rd Publication	n 180-1, April 17	7, 1995
F	"Smart Card Stage	I Description	", Version 1.1, CDN	1A Develop	ment Group-	Smart Card Tea	m Doc
	May 22,1996						
G				se 2+); AT (	Command Set	for GSM Mobil	le Equi
77				2 Windon	Appliantian I	Destage WAD 2	<u> </u>
н			Security version 1	z, wireless	Application	Protocol WAF-2	00- W 11
I			ect; Technical Specif	ication Gro	up Terminals	; USIM and IC	Card
	Requirements (Rel	ease 4)", 3GP	P TS 21.111 V4.0.0,	2001			
J						pread Spectum S	ystems
7.0	3GPP2 C.S0023-A	Version 1.0,	September 13, 2002	, pp. 1-1-5-	2, A1-A4	or 1 2002 date	Sacr-I
K			1705 03/24295, Inter	national fil	ing date Augu	ist 1, 2003, date	search
	A B C D E F G H I	Document No.  A 6,286,104  Document No.  A 6,286,104  Document No.  B GB 2 352 850  Other Doc  C R. Rivest, "The M. Computer Science  D R. Rivest, "The M. Computer Science  E "Secure Hash Stant F "Smart Card Stage May 22,1996  G "Digital Cellular T. (ME)", ETSI TS 1  H "Wireless Identity 20010712-a, July 2  I "3rd Generation Pa Requirements (Rel  J "3rd Generation Pa 3GPP2 C.S0023-A  K International Searce	Document No.   Date	Use several sheets if necessary	Information Disclosure Statement by Applicant    Country   Country	Information Disclosure Statement by Applicant  (Use several sheets if necessary)  U.S. Patent Documents    Document No.   Date   Name   Class	Applicant: Eduard K. de Jong et al.   Filed:   Group

Serial No. Atty. Docket No. Form PTO 1449 10/040,270 (Rev. 2-32) U.S. De SUN-P6990 Commerce Patent and Trademark Office Applicant: Judith E. Schwabe Information Disclosure Statement by Applicant Filed: Group: (Use several sheets if necessary) October 29, 2001 2131 **U.S. Patent Documents** Filing Date Class Subclass Document No. Date Name Init. Wentker et al. 2002/0040936 4/11/02 nw 4/29/903 Jones et al. 6,557,032 5,706,427 1/6/98 Tabuki 5,774,670 6/30/98 Montulli 11/24/98 Tabuki 5,841,970 7/27/99 Yu et al. 5,930,804 6,041,357 3/21/00 Kunzelman et al. echnology Center 2100 7/18/00 Reiche 6.092.196 8/14/01 Saito et al. 6,275,941 1/21/03 Crane et al. 6.510.236 **Foreign Documents** Translation Init. Document No. Date Country Class Subclass Yes No WO 97/08868 3/6/97 WO n Other Documents (Including Author, Title, Date, Pertinent Pages, etc.) Thomas Y.C. Woo et al. "Authentication for Distributed Systems, IEEE, January 1992, pp. 39-52. 30 Date Considered Examiner 1127100 Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Form PTO	14300			Attv. D	ocket No.	Serial No	).		
(Rev. 2-32)	144 Patent and Trader	of Commerce		SUN-P		10/040,2			
	Patent and Trader Information Disclosure			Applicant: Eduard de Jong et al.					
				Filed: (	Filed: October 29, 2001 Group: 2131				
	(Use several she	ets if necessar	y)				213	ν	
			U.S. Patent Docu	ıments					
Init.	Document No.	Date	Name		Class	Subclass	Filing	Date	
カン	5,706,427	1/6/98	Tabuki		395	187.01	6/27/	96	
					<u> </u>				
						RECEIVI	D		
			<u> </u>			AUG 0 6 2	<del>0 3</del>		
					<del>                                     </del>	Technology Cente	<b></b>		
					ļ		-		
					<del> </del>		+		
				-					
					1				
							ļ		
					<u> </u>				
			_L		_		<u>.l</u>	<del></del>	
			Foreign Docum	nents			Trar	slation	
Init.	Document No.	Date	Country		Class	Subclass	Yes	No	
nu	WO 00/42491	7/20/00	PCT	<del></del>	G06F	1/00	Abstract		
			uding Author, Tit						
ا محر	Vipin Samar, "Sin		· <del>-</del>						
	Phillip Hallam-Ba								
7	International Searce Report mailed July		'/US 02/34709, Int	ernational filii	ng date Oc	tober 29, 2002, dat	te Search	1	
Examiner	8). m	\	> <del></del>		Date Co	1161	1		
Examiner: I	nitial if citation consider	ecd, whether or ered. Include a	not citation is in c	onformance w	vith MPEP communic	609; Draw line the ation to applicant.	rough cit	ation	

Form PTO (Rev. 2-3		U.S. Department of Patent and Tradem			Atty. Do SUN-P6	cket No. 990	Serial No 10/040,2			
					Applicar	nt: Eduard de	Jong, et al.			
	Infor	mation Disclosure			Filed: October 29, 2001 Group: 2134					
				U.S. Patent Documer	nte					
Init.	Γ	Document No.	Date	Name	113	Class	Subclass	Filing	Date	
nw		6,226,744	5/1/01	Murphy et al.		713	200	10/9/9	7	
i		6,233,683	5/15/01	Chan et al.		713	172	3/24/9	98	
		6,308,317	10/23/01	Wilkinson et al.		717	5	10/24	/97	
L		6,438,550	8/20/02	Doyle et al.		707	9	12/10	/98	
							, ACC	10		
<del> </del>							<del> </del>	3	22 6	
			_}				<b>-</b>	<b>€}</b> ~	20	
								12	- KEI	
			<u>.</u>				4.	<del></del>	100 A	
								1, 190	9,	
								ASILI.		
							ļ	<u></u>		
								1		
	li					_				
	11			Foreign Documents						
				Foreign Document	•			Tran	slation	
Init.		Document No.	Date	Country		Class	Subclass	Yes	No	
								1.		
							<del> </del>			
	ıJ	Other Dec	uments (Incl.)	ding Author, Title, I	nate Perti	nent Pages e	te.)			
		Other Bot	ишено (писти	ung Author, Title, L	vate, I et ti	nent i ages, e	(0.)			
					- 1	<b>D</b> . 6				
Examiner	0	<u>)</u> . $\nu$		<u> </u>		Date Consid	'   '	1)06		
Examiner:	Initia	l if citation considere	ed, whether or ered. Include a	not citation is in confo	ormance wi	ith MPEP 609 communication	; Draw line the to applicant	rough cit	ation	

Rev. 2-	ΓΟ 144 32)	U.S. Department Patent and Tradem			Atty. Do SUN-Po	ocket No. 1990	Serial No 10/040,27		
(AF	JC Ink	nation Disclosure	Statement by	Annlicant	Applica	nt: de Jong et	al.		
MOA O	1 2002	(Use several she			Filed:	10/29/01 Gro	oup: 213	, i)	
	, et			U.S. Patent Docu	ments				
nit.	198	Document No.	Date	Name		Class	Subclass	Filing	Date
nW	A	6,373,950	04/16/02	Rowney		380	255	06/17	/96
	<u> </u>							ļ	
	-					-	,		
	1								
				Foreign Docum	ents				
						····		Tran	~~~
nit.		Document No.	Date	Country		Class	Subclass	Yes	No
カン	В	98/37526	19.02.98	wo		G07F 7/10		ļ	<u> </u>
	4			<del> </del>			<u> </u>	<u> </u>	-
						<u> </u>	<u> </u>	<u>.                                    </u>	L
		Other Do	cuments (Inclu	ding Author, Tit	le, Date, Pert	inent Pages, e	tc.)		
<b>√</b> ×	С	Chan, "Infrastructur	re of Multi-App	lication Smart Ca	rd",				
	D	http://home.hkstar.c	om/~alanchan/ a Card™ Techr	papers/multiAppii	Cards". Sun M	<u>.ardi,</u> July 25, icrosystems, pa	2002 ages 11- 16. Ju	ine, 2000	<u> </u>
- 1	ļ	Cordonnier, et al., "						gement i	
_	E		I HO COHOODE OF		secmitty mode				
	Ĺ		inforge.unil.ch/	/isdss97/papers/48	.htm, (1997)				
	F	de Kerf, B. et al., "?	inforge.unil.ch/ N-Count Fast, L	ow-Cost Secure P	.htm, (1997)			nology,	
	Ĺ	de Kerf, B. et al., "? Version 1.1, Februa	inforge.unil.ch/ N-Count Fast, L ry 1997, 8 page	ow-Cost Secure Pes.	.htm, (1997) ayments using	g Smart Cards'	', QC Tech		SS
	F	de Kerf, B. et al., "? Version 1.1, Februa "Sun Delivers On V Wire, September 28	inforge.unil.ch/ N-Count Fast, L ry 1997, 8 page Vision to Bring 1 8, 1999	ow-Cost Secure Pes. JAVA Technology	htm, (1997) ayments using to the Consu	g Smart Cards' mer and Embe	', QC Tech		is
	F G H	de Kerf, B. et al., "I Version 1.1, Februa "Sun Delivers On V Wire, September 28 "Sun Microsystems	inforge.unil.ch/ N-Count Fast, L ry 1997, 8 page Vision to Bring . 8, 1999 Announces JA	.ow-Cost Secure Fes. JAVA Technology VACARD API", 1	htm, (1997) ayments using to the Consu	g Smart Cards' mer and Embe	', QC Tech dded Market''	, Busines	SS
	F	de Kerf, B. et al., "? Version 1.1, Februa "Sun Delivers On V Wire, September 28 "Sun Microsystems Sun Microsystems:	inforge unil.ch/ N-Count Fast, L ry 1997, 8 page Vision to Bring 1 8, 1999 Announces JA "Sun's JAVA	.ow-Cost Secure Fes. JAVA Technology VACARD API", 1	htm, (1997) ayments using to the Consu	g Smart Cards' mer and Embe	', QC Tech dded Market''	, Busines	is
	F G H	de Kerf, B. et al., "I Version 1.1, Februa "Sun Delivers On V Wire, September 28 "Sun Microsystems	inforge unil.ch/ N-Count Fast, L ry 1997, 8 page ision to Bring . 8, 1999 Announces JA "Sun's JAVA	ow-Cost Secure Fes. JAVA Technology VACARD API", I	htm, (1997) ayments using to the Consu Business Wire s Open World	g Smart Cards' mer and Embe , October 1990 wide Market fo	', QC Tech dded Market" 6 or Smart Cards	Busines	SS
	F G H I	de Kerf, B. et al., "? Version 1.1, Februa "Sun Delivers On V Wire, September 28 "Sun Microsystems: Sun Microsystems: Presswire, May 199	inforge unil.ch/ N-Count Fast, L ry 1997, 8 page Vision to Bring . 8, 1999 Announces JA "Sun's JAVA 99 Inc., Java <sup>TM</sup> Se	ow-Cost Secure Pes. JAVA Technology VACARD API", 1 Technology Leads	htm, (1997) ayments using to the Consu Business Wire Open World Version 2.3,	g Smart Cards' mer and Embe , October 1996 wide Market fo September 200	', QC Technological Technologi	Busines	SS

RECEIVED

NOV 0 4 2002

OFFICE OF PETITIONS

	TAG:	JUN 1 4 2002	•				Page1	_ of <u>l</u>	_
Form PT (Rev. 2-1	32)	U.S. Department	of Commerce		Atty. Docket No. Serial No. 10/040,270				
		rmation Disclosure		Applicant	Applica	nt: de Jong et	al.	1	1
		(Use several she			Filed:	10/29/01 Gro	oup: 2151	 ΣΨ	ORIGINALL
		(Ose several site	ets ii necessar						
Init.	T	Document No.	Date	U.S. Patent Docum	enis	Class	Subclass	Filing	Date
กพ	A	6,212,633	04/03/01	Levy et al.		713	153	06/26/	
	-					RE	CEIV	ED)	
<del>-,</del>	-		<del></del>				JUN 1 9 2	002	
						Tanh	nology Cen	or 210	•
						1601	liniogy och	I E I U	
				Foreign Documer	ıts				
	7					Lo	To 1-1		lation
Init.	↓	Document No.	Date	Country	•	Class	Subclass	Yes	No
	<del> </del>			<del></del>	<del></del>	<u> </u>		-	
<del></del>	┼					<u> </u>			
<u>-</u>		ļ					<u> </u>		
	<del> </del>								
	ļ	<del> </del>					<u> </u>		
	<u></u>	Other Dec		uding Author, Title,	Data Part	inent Pages e	ta)	··.	
nw	В	Deianov, Borislav, http://www.cs.come	'Authenticatio	n – Lamport Hash ar	d Biometric	cs", printed on	1/9/02 from		
P	С	"Sun Leads Authen http://www.informa	tication Allian	ce", September 27, 2	001, printed	l from			
					_				
							·- <u></u>		$\dashv$
						<u> </u>	<del></del>		
				<del></del>					

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered include a copy of this form with the next communication to applicant.

Examiner

RECEIVED
JUN 2 7 2002
OFFICE OF PETITIONS

Page	ŀ	of	3

			OIP &	WAS SOLD			•	Page1	_ of <u>_</u> 3	3
Form	PT	O 144		<u>, RF</u>		Attv. Do	ocket No.	Serial No	<del></del>	
(Rev. 2-32) U.S. Department of Commerce				SUN-6990 10/040,270						
	Patent and Trademark Office					Applica	nt: de Jong et	<u></u>		
:		Info	rmation Disclosure S	Statement by	Applicant	''				
			(Use several shee			Filed:	10/29/01 Gro	oup: 2/3	14	
				1	U.S. Patent Documer	nte				
Init.		Т	Document No.	Date	Name	113	Class	Subclass	Filing	Date
nv		A	5,721,781	02/24/98	Deo et al.		380	25	09/13/	195
1,10	_	В	5,742,756	04/21/98	Dillaway et al.		395	186	02/12/	196
<del></del>	1	C	5,802,519	09/01/98	De Jong		707	100	02/08/	95
<i> </i>		D	5,844,218	12/01/98	Kawan et al.		235	380	07/16/	96
$\vdash$		E	5,930,363	07/27/99	Stanford et al.		380	24	03/17/	95
		F	6,052,690	04/18/00	De Jong		707	101	08/27/	98
-	_	G	6,094,656	07/25/00	De Jong		707	100	08/02/	96
Foreign Documents Translation										
Init.			Document No.	Date	Country		Class	Subclass	Yes.	No
7	7	Н	0 748 135	11/12/96	Europe		H04Q 7	22	X	
		I	94/30023	12/22/94	PCT		H04Q 7	04	X	
	-	J	97/45817	12/04/97	PCT		G07F 7	10	X	
		К	98/19237	05/07/98	PCT		G06F 9	46	X	
1		L	00/00890	01/06/00	PCT		G06F 11	00	X	
4		М	01/06391	01/25/01	PCT		G06F 17	00	Х	
	_	N	Other Doc	uments (Inclu	ding Author, Title, I Sourcebook, Copyrigh	late, Pert	inent Pages, e	v "Sun Rises (	Over Sma	art
$\sim$		14	Cards", pp. 150-154.		Sourcebook, Copyrigin		idikilci de Gia	y, oun reises e	over onle	
		0	England, pp. 1-13.	-	Authentication Proto			rsity Computer	r Laborat	tory,
	1	P			st?", October 16, 200	-		heml : 10"	22	
	H	Q			/printerfriendly/0,0 to Building and Man					3:
	Ш	<u> </u>	Publisher Robert Ips	en; "Smart Ca	rd Development Skills	s, Methods	s, and Tools";	pp. 159-225.		
		R	Evers, Joris, "Update 2001, printed from	e: Sun, others	form MS Passport alte	rnative", S	Sun Microsyst	ems, Inc., Sept	ember 20	5,
	i			rworld.com/cv	vi/Printer_Friendly_V	ersion/0,1	212,NAV47_S	STO64233-,00	on 1/8	3/02.
	1	S	Fisher, Dennis, "Sun	unveils open	alternative to Passport	", Septem	ber 26, 2001,	printed from	-	
		т			erfriendly/0,6061,2				·	
		T	. •		cation Alliance", Septcom/story/IWK20		•			
+	$\dashv$	U	Goldreich, Oded, "T	he Foundation	s of Modern Cryptogr	aphy", Ma	y 2, 1998, De	partment of Co	mputer	
T			Science and Applied	Mathematics,	Weizmann Institute o	f Science,			3.1, pp.	0-41.
Exami		U	1.1	>_			Date Consid	06		
			al if citation considered						rough cit	ation
LL DOU	ın c	UNION	nance and not conside	icu, include a	CODA OT RITS TOLLI MILI	ı uic next	communicatio	n to applicable.		

Page	2	of	3

		OLPE				
		APR 0 1 2002 &	•	Page _ 2 _ of _ 3 _		
Form PT (Rev. 2-3		U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. SUN-6990	Serial No. 10/040,270		
	Info	rmation Disclosure Statement by Applicant	Applicant: de Jong et a			
		(Use several sheets if necessary)	Filed: 10/29/01 Group: 2/34			
		Other Documents (Including Author, Title, I	oate, Pertinent Pages, et	c.)		
7	V	Gong et al., "Going Beyond the Sandbox: An Overview of Development Kit 1.2", USENIX Symposium on Internet pp. 103-112.	Technologies and System	ns-December 8-11, 1997,		
)	W	Haller, et al. "Description of the S/KEY One-Time Passy		1/9/02 from		
	X	http://math.lanl.gov/~aric/Skey/skey.txt, 5 pages. Hawblitzel, et al., "Implementing Multiple Protection Do		l Report 97-1660,		
		Department of Computer Science, Cornell University.				
	Y	Heiss, J. et al., "Java Card™ Technology Grows Up Sma http://java.sun.com/features/1999/01/javacard.h	irt", printed on 4/22/00 at	•		
	Z	Islam, N. et al., "A Flexible Security Model for Using Int Center Papers, 'Online!', 6/28/97.		omas J. Watson Research		
	AA	"Kerberos: The Network Authentication Protocol", printed from <a href="http://web.mit.edu/kerberos/www/">http://web.mit.edu/kerberos/www/</a> on 1/9/02.				
	AB	"Liberty Alliance Project- The Liberty Alliance Project", 1/8/02.	printed from http://ww	w.projectliberty.org/ on		
	AC	"Liberty Alliance Project-Industry Leaders to Form Netw from http://www.projectliberty.org/release.html		Alliance Project", printed		
	AD	"Liberty Alliance Project-FAQ", printed from http://pro	ojectliberty.org.faq.ht	<u>ml</u> on 1/8/02.		
	ΑE	Lindholm, et al., "The JAVA™ Virtual Machine Specific	cation", September 20, 19	96.		
	AF	Naor, et al., "Universal One-Way Hash Functions and the 1-14.	eir Cryptographic Applica	ations", March 13, 1995, pp.		
-	AG	Schneider, Professor Fred B., "Authentication-Lamport h System Security, Lecture 12, printed from http://www.				
		on 1/9/02.				
	AH	Sun Microsystems, Inc., "Java Card™ Runtime TM Envi 12/14/98, US XP002138793 cited in the application page	6-2 page 6-10.			
	ΑĪ	Sun Microsystems, Inc., "How to write a Java Card apple	et: A developer's guide",	printed on 4/22/00 from		
$\vdash \vdash \vdash$	AJ	http://www.javaworld.com.javaworld/jw-07-19 Sun Microsystems, Inc. "Smart Cards: A primer", printed		<u>p.num,</u> 15 pages.		
\	A.J	http://www.javaworld.com/javaworld/jw-12-19		p.html, 13 pages.		
	AK	Sun Microsystems, Inc., "Sun's Java Card™ Technology	Extends its Industry Lea			
	A <b>T</b>	from http://java.sun.com/pr/1999/11/pr991116-0	1.html 1, 5 pages.			
	AL	Sun Microsystems, Inc., "Understanding Java Card 2.0", www.javaworld.com/javaworld/jw-03-1998/f j				
	AM	Sun Microsystems, Inc., "Java Card™ Applet Developer	's Guide", August 19, 199	98, Revision 1.12.		
	AN	Sun Microsystems, Inc., "Java Card™ 2.0 Application Pr 1.0 Final.	ogramming Interfaces", (	October 13, 1997, Revision		
	AO	Sun Microsystems, Inc., "Java Card™ 2.0 Language Sub 1997, Revision 1.0 Final.	set and Virtual Machine S	Specification", October 13,		
<b>Y</b>				_		
Examine	7	7	Date Consider	red, 12/06		
Examine	r: Initi	al if citation considered, whether or not citation is in confo		1 1 -3 1 -		
if not in c	onfor	nance and not considered. Include a copy of this form with	the next communication	to applicant.		

		APR 0 1 2002 &			
		Reference to the second		Page3 of3	
Form P	ΓO 144	9 TRADEMANS.	Atty. Docket No.	Serial No.	
(Rev. 2-	32)	U.S. Department of Commerce	SUN-6990	10/040,270	
	_	Patent and Trademark Office			
_		<del></del>	Applicant: de Jong et	tal.	
	Info	rmation Disclosure Statement by Applicant			
			Filed: 10/29/01 Gro	oup:	
		(Use several sheets if necessary)	<u> </u>		
		Other Documents (Including Author, Title, I	Date, Pertinent Pages,	etc.)	
クシ	AP	Sun Microsystems, Inc., "Java Card™ 2.0 Programming			
,	AQ	Sun Microsystems, Inc., "Java Card <sup>TM</sup> 2.1 Application Pr	rogramming Interface",	June 7, 1999, Final Revision	
	1			ication" June 7, 1000 Final	
	AR	Sun Microsystems, Inc., "Java Card™ 2.1 Runtime Envir Revision 1.1.	· · · · · · · · · · · · · · · · · · ·		
	AS	Sun Microsystems, Inc., "Java Card™ 2.1 Virtual Machi	<u>*</u>		
	AT	Sun Microsystems, Inc., "Release Notes - Java Card™ 2.	1 Specifications", June	7, 1999, Final Revision 1.1.	
	AU	Sun Microsystems, Inc., "The K Virtual Machine (KVM)			
	AV	Thomas, David J., "Smart and Smarter: The Emergence of	of Java Card™ Technol	ogy", printed on 4/22/00 from	
•		http://java/sun.com/features/1998/04/javacard.h	<u>itml,</u> 8 pages.	•	
Examine	er \	). In	Date Consid	lered 1241 old	
Examine	er: Initi	al if citation considered, whether or not citation is in confo	ormance with MPEP 60		
if not in conformance and not considered. Include a copy of this form with the next communication to applicant.					